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OM protein - protein search, using sw model

Run on: February 11, 2004, 10:44:14 ; Search time 33 Seconds  
 (without alignments)  
 Perfect score: 1433.951 Million cell updates/sec

Title: US-09-441-723-1  
 Sequence: MGPLRTVBLFVDSLSPSW.....AHLGEKRMGP1PPAVNRL 226

Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5

Searched: 801455 seqs, 209382283 residues

Total number of hits satisfying chosen parameters: 801455

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing First 45 summaries

Database : Published Applications AA:\*

1: /cgn2\_6/ptodata/1/pubpaas/us07\_PUBCOMB.pep:\*

2: /cgn2\_6/ptodata/1/pubpaas/us07\_PUBCOMB.pep:\*

3: /cgn2\_6/ptodata/1/pubpaas/us06\_NEWPUB.pep:\*

4: /cgn2\_6/ptodata/1/pubpaas/us07\_NEWPUB.pep:\*

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6: /cgn2\_6/ptodata/1/pubpaas/PCTUS\_PUBCOMB.pep:\*

7: /cgn2\_6/ptodata/1/pubpaas/US08\_NEWPUB.pep:\*

8: /cgn2\_6/ptodata/1/pubpaas/PUBCOMB\_pep:\*

9: /cgn2\_6/ptodata/1/pubpaas/US09A\_PUBCOMB\_pep:\*

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11: /cgn2\_6/ptodata/1/pubpaas/US09C\_PUBCOMB\_pep:\*

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13: /cgn2\_6/ptodata/1/pubpaas/US10A\_PUBCOMB\_pep:\*

14: /cgn2\_6/ptodata/1/pubpaas/US10B\_PUBCOMB\_pep:\*

15: /cgn2\_6/ptodata/1/pubpaas/US10C\_PUBCOMB\_pep:\*

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17: /cgn2\_6/ptodata/1/pubpaas/US60\_NEWPUB.pep:\*

18: /cgn2\_6/ptodata/1/pubpaas/US60\_PUBCOMB.pep:\*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1185	100.0	240	9	US-09-876-889-349
2	326.5	27.6	107	11	US-09-764-891-5132
3	113	9.5	241	15	US-10-156-761-11189
4	92.5	7.8	255	15	US-10-156-761-8857
5	91	7.7	581	12	US-10-369-993-2888
6	89.5	7.6	962	12	US-10-369-993-23533
7	89	7.5	545	12	US-10-413-943-20
8	89	7.5	592	12	US-10-413-943-2
9	89	7.5	592	12	US-10-413-943-4
10	89	7.5	592	12	US-10-413-943-64
11	89	7.5	592	12	US-10-413-943-64
12	89	7.5	609	12	US-10-413-943-6
13	89	7.5	609	12	US-10-413-943-63
14	89	7.5	751	12	US-10-413-943-59
15	86.5	7.5	395	10	US-09-738-626-4728

Score: 88.5 ; Length: 240 ;

Sequence 6230, AP

Sequence 10510, A

Sequence 14132, A

Sequence 14693, A

Sequence 10, APP

Sequence 92, APP

Sequence 93, APP

Sequence 12, APP

Sequence 1864, APP

Sequence 632, APP

Sequence 45, APP

Sequence 113, APP

Sequence 2, APP

#### ALIGNMENTS

RESULT 1  
 US-09-876-889-349 ; Sequence 349, Application US/09876889 ; Patent No. US200076715A1 ; GENERAL INFORMATION: ; APPLICANT: Benson, Darin R. ; Inventor: Lodas, Michael J. ; MITCHELL, Jennifer L. ; APPLICANT: Mitcham, Gordon E. ; APPLICANT: King, Gordon E. ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR OVARIAN CANCER THERAPY AND DIAGNOSIS ; FILE REFERENCE: 210121.466C3 ; CURRENT APPLICATION NUMBER: US/09/876,889 ; CURRENT FILING DATE: 2001-06-06 ; NUMBER OF SEQ ID NOS: 353 ; SOFTWARE: FastSeq for Windows version 3.0 ; SEQ ID NO 349 ; LENGTH: 240 ; TYPE: PRT ; ORGANISM: Homo sapiens ; US-09-876-889-349

Query Match 100.0% ; Score 1185 ; DB 9 ; Length 240 ; Best Local Similarity 100.0% ; Pred. No. 2.9e-120 ; Mismatches 0 ; Indels 0 ; Gaps 0 ; Matches 226 ; Conservative 0 ;

Qy 1 MGPLRTVELFYDVLSPYSWLGFEILCRQNIINNIQLRPLSLITGIMKDSGNKRPGLJP 60  
 Db 15 MGPLRTVELFYDVLSPYSWLGFEILCRQNIINNIQLRPLSLITGIMKDSGNKRPGLJP 74  
 Qy 61 RKGIMANDLKLRLHQLQPIHFPMDLSPVMLEKGSLSAMRFLTVNLHPEMLEKASRE 120  
 Db 75 RKGIMANDLKLRLHQLQPIHFPMDLSPVMLEKGSLSAMRFLTVNLHPEMLEKASRE 134  
 Qy 121 LWMRWSRNEDITEQFQSLAAKGMSEAQAGLLEKATPKYKQNLKETTEACRYGA 180  
 Db 135 LWMRWSRNEDITEQFQSLAAKGMSEAQAGLLEKATPKYKQNLKETTEACRYGA 194

Qy 181 FGLPITVYAHVGDGOTHMLFGSDRMELLAHLGKWMGPIPPAVNRL 226  
 Db 195 FGLPITVYAHVGDGOTHMLFGSDRMELLAHLGKWMGPIPPAVNRL 240

RESULT 2  
 US-09-764-891-5132  
 ; Sequence 5132, Application US/09764891  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
 ; FILE REFERENCE: PCT006  
 ; CURRENT APPLICATION NUMBER: US/09/764,891  
 ; CURRENT FILING DATE: 2001-01-17  
 ; Prior application data removed  
 ; NUMBER OF SEQ ID NOS: 10231  
 ; SEQ ID NO 5132  
 ; LENGTH: 107  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-764-891-5132

Query Match 27.6%; Score 326.5; DB 11; Length 107;  
 Best Local Similarity 84.2%; Pred. No. 1.8e-27;  
 Matches 64; Conservative 4; Mismatches 3; Indels 5; Gaps 1;

Qy 41 PSLITGIMKDSGNKPPGILPLRKGLYLYMANDKLRLRHHHQIPTHFPKDPLSVMLEKGSLSAM 100  
 Db 25 PNLIL---AGNPKPGPLPLRKGLYLYMANDKLRLRHHHQIPTHFPKDPLSVMLEKGSLSAM 79

Qy 101 RFLTAVNLBHPB1WPK 116  
 Db 80 RFLTAVNLBHPB1WPK 95

RESULT 3  
 US-10-156-761-11189  
 ; Sequence 11189, Application US/10156761  
 ; Publication No. US20030119018A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: OMURA, SATOSHI  
 ; APPLICANT: IKEDA, HARUO  
 ; APPLICANT: ISHIKAWA, JUN  
 ; APPLICANT: HORIKAWA, HIROSHI  
 ; APPLICANT: SHIBA, TADAYOSHI  
 ; APPLICANT: SAKAKI, YOSHIVUKI  
 ; APPLICANT: HATTORI, MASAHIRO  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-362  
 ; CURRENT APPLICATION NUMBER: US/10/156,761  
 ; CURRENT FILING DATE: 2002-05-29  
 ; PRIOR APPLICATION NUMBER: JP 2001-204089  
 ; PRIOR FILING DATE: 2001-05-30  
 ; PRIOR APPLICATION NUMBER: JP 2001-272697  
 ; PRIOR FILING DATE: 2001-08-02  
 ; NUMBER OF SEQ ID NOS: 15109  
 ; SEQ ID NO 8857  
 ; LENGTH: 255  
 ; TYPE: PRT  
 ; ORGANISM: Streptomyces avermitilis  
 US-10-156-761-8857

Query Match 7.8%; Score 92.5; DB 15; Length 255;  
 Best Local Similarity 22.8%; Pred. No. 0.17;  
 Matches 56; Conservative 32; Mismatches 83; Indels 75; Gaps 12;

Qy 2 GPLPLRIVELFYDVLS-----PYSWLGFPEI-----LCRYQNTWNINLQO-LRPSLIT 45  
 Db 10 GAVPRVSAAMEAVLSSHLRGAITERGDDA-IGEKLPSSEABLCRLEVRVLPREALQVM 68

Query Match 4.6%; Score 92.5; DB 15; Length 255;  
 Best Local Similarity 22.8%; Pred. No. 0.17;  
 Matches 56; Conservative 32; Mismatches 83; Indels 75; Gaps 12;

Qy 46 GIMKDGNKPKQLL-----PRKGLYMANDKLRLRHHQIPTHFPKDPLSVMLEKGSLSA 99  
 Db 69 GLTASRTGKGCTFVLAHTVEDPTFGDVTASDLEVRHVEIPV-----AGYAA 115

Qy 100 MRFLTAVNLH -PEMUKASPELMWVWSRNEDITEPQS1LAAEKAQMSAEQAQCLLEK 158  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-362  
 ; CURRENT APPLICATION NUMBER: US/10/156,761  
 ; CURRENT FILING DATE: 2002-05-29  
 ; PRIOR APPLICATION NUMBER: JP 2001-204089  
 ; PRIOR FILING DATE: 2001-05-30  
 ; PRIOR APPLICATION NUMBER: JP 2001-272697  
 ; PRIOR FILING DATE: 2001-08-02  
 ; NUMBER OF SEQ ID NOS: 15109  
 ; SEQ ID NO 11189  
 ; LENGTH: 241  
 ; TYPE: PRT  
 ; ORGANISM: Streptomyces avermitilis  
 US-10-156-761-11189

Query Match 9.5%; Score 113; DB 15; Length 241;  
 Best Local Similarity 22.8%; Pred. No. 0.00094;  
 Matches 56; Conservative 37; Mismatches 99; Indels 54; Gaps 10;

Qy 6 RTVLFYDVLSPLSPWMLGF-BILCRYQNT-----WNINLQRLRPLSLTGIMKDSGNKPP--G 57  
 Db 9 RPPRFYSLRSPLSPWMLDPLRPTAAAEW-VPPFPDPELSRKLLAEGGAPYPT 67  
 Qy 58 LLPRKGLYMANDKLRLRHHQIPTHFPKDPLS- -MULEKGSLSAMRFLTAVNLHPEM 115

RESULT 5  
 US-10-369-493-3888  
 ; Sequence 2888, Application US/10369493  
 ; Publication No. US20030233675A1  
 ; GENERAL INFORMATION:

RESULT 6  
 US-10-369-493-23533  
 ; Sequence 23533, Application US/10369493  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cao, Yongwei  
 ; APPLICANT: Hinkle, Gregory J.  
 ; APPLICANT: Slater, Steven C.  
 ; APPLICANT: Goldman, Barry S.  
 ; APPLICANT: Chen, Xianfeng  
 ; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF PLANTS WITH IMPROVED PROPERTIES  
 ; FILE REFERENCE: 38-1.0 (52052) B  
 ; CURRENT APPLICATION NUMBER: US/10/369,493  
 ; CURRENT FILING DATE: 2003-02-28  
 ; PRIORITY NUMBER: US 60/360,039  
 ; PRIORITY FILING DATE: 2002-02-21  
 ; NUMBER OF SEQ ID NOS: 4734  
 ; SEQ ID NO: 23533  
 ; LENGTH: 592  
 ; TYPE: PRT  
 ; ORGANISM: Escherichia coli

Query Match 7.6%; Score 89 5; DB 12; Length 962;  
 Best Local Similarity 26.3%; Pred. No. 2.6;  
 Matches 30; Conservative 13; Mismatches 48; Indels 23; Gaps 3;

Qy 126 WSRNEDITPQSTIIAAAERAGMSEAQA-----QGLIEKIAATPKVKNQ 167  
 Db 731 WCRNDVDDKKQSVIFERAGNSTDSALLAVFVPTGYDEYTSSAYSSLGQIVQPMWFMQ 790  
 Qy 168 LKETTEAACRYGAFLPIVAYHVDGQTHMLFGSDRMELLAHLJGEKWMGPIPA 221

RESULT 7  
 US-10-413-943-20  
 ; Sequence 20, Application US/10413943  
 ; Publication No. US/200400067841  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mourad, George S,  
 ; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms that Express Feedback Inensitive Threonine Dehydratase/Deaminase  
 ; FILE REFERENCE: PRF-07898  
 ; CURRENT APPLICATION NUMBER: US/10/413,943  
 ; CURRENT FILING DATE: 2003-04-15  
 ; NUMBER OF SEQ ID NOS: 69  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO: 20  
 ; LENGTH: 545  
 ; TYPE: PRT  
 ; ORGANISM: Arabidopsis thaliana

Query Match 7.5%; Score 89; DB 12; Length 545;  
 Best Local Similarity 22.8%; Pred. No. 1.3;  
 Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;  
 US-10-413-943-20

Qy 55 PPGL-LPRKGGLYMANDKLRLHQIPTHFPKDFLSW-----LKGSLSL-AMRFIT-- 104  
 5 PPKLPLPR-----LKVSPNSLQ----YPAGYLGVPERTNEAENGSIAEAMYLTNI 52  
 Db 105 -----AVNLEHP-EMLEKASRELWMRWSRNEDITE----- POSILAA 141  
 Qy 53 LSTKVYDIAESPLQLAKKLSTRKLGRVMLKREDLQVFSPLKLRGAYNMVYKLPAQOLAK 112  
 Db 142 AEXAGMSAEQAQ-----LLEKIAATPKVKNOLKETTEAACRYGAFLPITVA 188  
 Qy 189 HVDGQTMFLFGSDRMELLAHL--LGKWMGPIPP 220  
 Db 113 GVTCSAGNHAQCVALSASKLGTCAVIVMPVTPPEIWKWQAVNL----- 156  
 Qy 157 --GATVVLFGDSYDQAQAHAKTRAEBBEGLTPIPP 188  
 Db

RESULT 8  
 US-10-413-943-2  
 ; Sequence 2, Application US/10413943  
 ; Publication No. US/200400067841  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mourad, George S,  
 ; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms that Express Feedback Inensitive Threonine Dehydratase/Deaminase  
 ; FILE REFERENCE: PRF-07898  
 ; CURRENT APPLICATION NUMBER: US/10/413,943  
 ; CURRENT FILING DATE: 2003-04-15  
 ; NUMBER OF SEQ ID NOS: 69  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO: 2  
 ; LENGTH: 592  
 ; TYPE: PRT  
 ; ORGANISM: Arabidopsis thaliana

Query Match 7.5%; Score 89; DB 12; Length 592;  
 Best Local Similarity 22.8%; Pred. No. 1.4;  
 Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;  
 US-10-413-943-2

Qy 55 PPGL-LPRKGGLYMANDKLRLHQIPTHFPKDFLSW-----LKGSLSL-AMRFIT-- 104  
 52 PPKLPLPR-----LKVSPNSLQ----YPAGYLGVPERTNEAENGSIAEAMYLTNI 99  
 Db 105 -----AVNLEHP-EMLEKASRELWMRWSRNEDITE----- POSILAA 141  
 Qy

RESULT 9  
US-10-413-943-4  
; Sequence 4, Application US/10413943  
; Publication No. US2004000678411  
; GENERAL INFORMATION:  
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms  
; that Express Feedback Insensitive Threonine Dehydratase/Deaminase  
; FILE REFERENCE: PRF-07898  
; CURRENT APPLICATION NUMBER: US/10/413, 943  
; CURRENT FILING DATE: 2003-04-15  
; NUMBER OF SEQ ID NOS: 69  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 4  
; LENGTH: 592  
; ORGANISM: *Arabidopsis thaliana*  
; TYPE: PRT  
; US-10-413-943-4

Query Match 7.5%; Score 89; DB 12; Length 592;  
Best Local Similarity 22.8%; Pred. No. 1.4;  
Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;

Db 55 PPGL-LPRKGLYMANDLKLRLHQLQIPHFKDFLSW-----LEKGSLS-AMRFLT- 104  
52 PPKLPLPR-----LKVSPNSLQ-----YAGYLGAVPERTNEAENGSTAEAMEYLTN 99

Db 100 LSTKVDIAIESPLQAKLKSRLGVAYNMYKLPAQLOAK 159

Db 142 AEKAGMSAEQAQG-----LLEKATPKVKNQLEKETTEAACRYGAFGLPITVA 188

Db 160 GVICSSAGNHAQGVALSASKLGGCTAVIMPVTPKQAVENL----- 203

Db 189 HVDGQTHMLFGSDRMELLAHL---LGEKWMGPIPP 220

Db 204 --GATVVLFGDSYDQAQAHAKIRABEGLTFIPP 235

RESULT 10  
US-10-413-943-64  
; Sequence 64, Application US/10413943  
; Publication No. US2004000678411  
; GENERAL INFORMATION:  
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms  
; that Express Feedback Insensitive Threonine Dehydratase/Deaminase  
; FILE REFERENCE: PRF-07898  
; CURRENT APPLICATION NUMBER: US/10/413, 943  
; CURRENT FILING DATE: 2003-04-15  
; NUMBER OF SEQ ID NOS: 69  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 4  
; LENGTH: 592  
; ORGANISM: *Arabidopsis thaliana*  
; TYPE: PRT  
; US-10-413-943-64

Query Match 7.5%; Score 89; DB 12; Length 592;  
Best Local Similarity 22.8%; Pred. No. 1.4;  
Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;

Db 55 PPGL-LPRKGLYMANDLKLRLHQLQIPHFKDFLSW-----LEKGSLS-AMRFLT- 104  
52 PPKLPLPR-----LKVSPNSLQ-----YAGYLGAVPERTNEAENGSTAEAMEYLTN 99

Db 100 LSTKVDIAIESPLQAKLKSRLGVAYNMYKLPAQLOAK 159

Db 142 AEKAGMSABQG-----LLEKATPKVKNQLEKETTEAACRYGAFGLPITVA 188

Db 160 GVICSSAGNHAQGVALSASKLGGCTAVIMPVTPKQAVENL----- 203

Db 189 HVDGQTHMLFGSDRMELLAHL---LGEKWMGPIPP 220

Db 204 --GATVVLFGDSYDQAQAHAKIRABEGLTFIPP 235

RESULT 11  
US-10-413-943-67  
; Sequence 67, Application US/10413943  
; Publication No. US2004000678411  
; GENERAL INFORMATION:  
; APPLICANT: Mourad, George S,  
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms  
; that Express Feedback Insensitive Threonine Dehydratase/Deaminase  
; FILE REFERENCE: PRF-07898  
; CURRENT APPLICATION NUMBER: US/10/413, 943  
; CURRENT FILING DATE: 2003-04-15  
; NUMBER OF SEQ ID NOS: 69  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 67  
; TYPE: PRT  
; ORGANISM: *Arabidopsis thaliana*  
; LENGTH: 592  
; US-10-413-943-67

Query Match 7.5%; Score 89; DB 12; Length 592;  
Best Local Similarity 22.8%; Pred. No. 1.4;  
Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;

Db 55 PPGL-LPRKGLYMANDLKLRLHQLQIPHFKDFLSW-----LEKGSLS-AMRFLT- 104  
52 PPKLPLPR-----LKVSPNSLQ-----YAGYLGAVPERTNEAENGSTAEAMEYLTN 99

Db 100 LSTKVDIAIESPLQAKLKSRLGVAYNMYKLPAQLOAK 159

Db 142 AEKAGMSABQG-----LLEKATPKVKNQLEKETTEAACRYGAFGLPITVA 188

Db 160 GVICSSAGNHAQGVALSASKLGGCTAVIMPVTPKQAVENL----- 203

Db 189 HVDGQTHMLFGSDRMELLAHL---LGEKWMGPIPP 220

Db 204 --GATVVLFGDSYDQAQAHAKIRABEGLTFIPP 235

RESULT 12  
US-10-413-943-6  
; Sequence 6, Application US/10413943  
; Publication No. US2004000678411  
; GENERAL INFORMATION:  
; APPLICANT: Mourad, George S,  
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms  
; that Express Feedback Insensitive Threonine Dehydratase/Deaminase  
; FILE REFERENCE: PRF-07898  
; CURRENT APPLICATION NUMBER: US/10/413, 943  
; CURRENT FILING DATE: 2003-04-15  
; NUMBER OF SEQ ID NOS: 69  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 6  
; LENGTH: 609

RESULT 14  
 US-10-413-943-59  
 ; Sequence 59, Application US/10413943  
 ; Publication No. US20040006784A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mourad, George S.  
 ; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms  
 ; FILE REFERENCE: PRF-07898  
 ; CURRENT FILING DATE: 2003-04-15  
 ; NUMBER OF SEQ ID NOS: 69  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO: 63  
 ; LENGTH: 609  
 ; TYPE: PRT  
 ; ORGANISM: Arabidopsis thaliana  
 ; US-10-413-943-6

Query Match 7.5%; Score 89; DB 12; Length 609;  
 Best Local Similarity 22.8%; Pred. No. 1.5;  
 Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;

Qy 55 PPGI-LPRKGLYMANDKLKJRRHHQIPIHPKDPFLSVM-----LEKGSLSL-AMREFLT- 104  
 Db 69 PPKLPLPR-----LKVSPNSLQ-----YPAGYLGAVPERTNEAENGSTAEAMEYLNTI 116

Qy 105 -----AVNLHHP-EMLEKASRELAKMRVNSRNDITE-----POSIILA 141  
 Db 1117 LSTKYDIAESPLQAKLKSKRGLVRMVLKREDLQPVFSKLRGAYNMVKLPADQLAK 176

Qy 142 AEKAGMSAEOAQG-----LLKXIAKPVKNQLKETTEAACRYGAFGLPLTVTA 188  
 Db 177 GVICSSAGHNRQGVALSASAKLGGCTAVIMPVTPBKWKQAVENL----- 220

Qy 189 HVDGOTHMLFGSDRMELLAHL--LGEKNGGPIPP 220  
 Db 221 ---GATVVLFGDSYDQAQAHAKIRAEEGDFTIPP 252

RESULT 13  
 US-10-413-943-63  
 ; Sequence 63, Application US/10413943  
 ; Publication No. US20040006784A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mourad, George S.  
 ; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms  
 ; FILE REFERENCE: PRF-07898  
 ; CURRENT FILING DATE: 2003-04-15  
 ; NUMBER OF SEQ ID NOS: 69  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO: 63  
 ; LENGTH: 609  
 ; TYPE: PRT  
 ; ORGANISM: Arabidopsis thaliana  
 ; US-10-413-943-63

Query Match 7.5%; Score 89; DB 12; Length 609;  
 Best Local Similarity 22.8%; Pred. No. 1.5;  
 Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;

Qy 55 PPGI-LPRKGLYMANDKLKJRRHHQIPIHPKDPFLSVM-----LEKGSLSL-AMREFLT- 104  
 Db 69 PPKLPLPR-----LKVSPNSLQ-----YPAGYLGAVPERTNEAENGSTAEAMEYLNTI 116

Qy 105 -----AVNLHHP-EMLEKASRELAKMRVNSRNDITE-----POSIILA 141  
 Db 1117 LSTKYDIAESPLQAKLKSKRGLVRMVLKREDLQPVFSKLRGAYNMVKLPADQLAK 176

Qy 142 AEKAGMSAEOAQG-----LLKXIAKPVKNQLKETTEAACRYGAFGLPLTVTA 188  
 Db 177 GVICSSAGHNRQGVALSASAKLGGCTAVIMPVTPBKWKQAVENL----- 220

Qy 189 HVDGOTHMLFGSDRMELLAHL--LGEKNGGPIPP 220  
 Db 221 ---GATVVLFGDSYDQAQAHAKIRAEEGDFTIPP 252

RESULT 15  
 US-09-738-626-4728  
 ; Sequence 4728, Application US/09738626  
 ; Publication No. US20020197605A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: NAKAGAWA, SATOSHI  
 ; MIZOGUCHI, HIROSHI  
 ; ANDO, SEIKO  
 ; HAYASHI, MIKIRO  
 ; OCHIAI, KEIKO  
 ; YOKOI, HARUHIKO  
 ; TATEISHI, NAORO  
 ; SENOH, AKIHIRO  
 ; IKEDA, MASATO  
 ; OZAKI, AKIO  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-125  
 ; CURRENT APPLICATION NUMBER: US/09/738-626  
 ; PRIORITY APPLICATION NUMBER: JP 99/377484  
 ; PRIORITY FILING DATE: 1999-12-16  
 ; PRIORITY APPLICATION NUMBER: JP 00/159162  
 ; PRIORITY FILING DATE: 2000-04-07  
 ; PRIORITY APPLICATION NUMBER: JP 00/280988  
 ; PRIORITY FILING DATE: 2000-08-03  
 ; NUMBER OF SEQ ID NOS: 7059  
 ; SOFTWARE: PatentIn ver. 3.0  
 ; SEQ ID NO: 4728  
 ; LENGTH: 395  
 ; TYPE: PRT  
 ; ORGANISM: Corynebacterium glutamicum  
 ; US-09-738-626-4728

Query Match 7.5%; Score 89; DB 10; Length 395;  
 Best Local Similarity 23.5%; Pred. No. 0.9;  
 Matches 38; Conservative 24; Mismatches 65; Indels 35; Gaps 7;

Qy 84 PKDPLSYMLEKGSLSAERFLAVNLLEPEMLEKASRELMWRSRNEDITEPOSIILAAE 143  
 Db 206 PEALMAFLMEKTOIQLKTYLFPTPH-KHPE-----QWNSPDYGDIGPEAYANATL 253

Qy 144 KAGMSAEQAGLLEKIAATPKVK-NQLKETTEAACRYGAFFGLPTTVAHVD-GQT 194  
Db 254 VCAKDLDEVAGATEKSYTPSBKNAKALTRARDGHICRFPCCVPASKCQDYHTIPWABGGPT 313  
Qy 195 -----KMLFGSSDRMELLAHILGE-KMKGPTP-PAV 222  
Db 314 AAWNLOLQICQRHNMKTDGRTADANGLAEBIRWIGMDPAV 355

Search completed: February 11, 2004, 10:49:59  
Job time : 34 secs

GenCore version 5.1.6  
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OM protein - protein search, using SW model

Run on: February 11, 2004, 10:39:59 ; Search time 21 Seconds  
(without alignments)  
455.345 Million cell updates/sec

Title: US-09-441-723-1  
Perfect score: 1185  
Sequence: 1 MCPLRTVBLFYDVLSPYSW.....AHLLGBKWMGDBPPAVNRL 226

Scoring table: BLOSUM62  
Gapopen 10.0 , Gapext 0.5

Searched: 328717 seqs, 4231058 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing First 45 summaries

Database : Issued Patents AA.\*

1: /cgn2\_6/peodata/1/iaa/5A\_COMB\_pep:  
2: /cgn2\_6/peodata/1/iaa/5B\_COMB\_pep:  
3: /cgn2\_6/peodata/1/iaa/6A\_COMB\_pep:  
4: /cgn2\_6/peodata/1/iaa/6B\_COMB\_pep:  
5: /cgn2\_6/peodata/1/iaa/PCFTUS\_COMB\_pep:  
6: /cgn2\_6/peodata/1/iaa/backfiles1\_pep:  
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	1185	100.0	226	3	US-09-718-174-1	Sequence 1, Appli
2	874	73.8	226	3	US-08-778-174-3	Sequence 3, Appli
3	196	16.5	203	4	US-09-252-991A-17282	Sequence 17282, A
4	87	7.3	1150	4	US-09-552-991A-24671	Sequence 24671, A
5	80.5	6.8	339	2	US-08-855-714-3	Sequence 3, Appli
6	78.5	6.6	353	4	US-09-252-991A-16824	Sequence 16824, A
7	77	6.5	659	4	US-09-552A-193-432	Sequence 432, Appli
8	76.5	6.5	317	2	US-09-066-075-2	Sequence 2, Appli
9	76.5	6.5	317	2	US-08-518-615A-2	Sequence 2, Appli
10	76.5	6.5	317	3	US-08-851-859-2	Sequence 2, Appli
11	76.5	6.5	317	3	US-08-072-857-2	Sequence 2, Appli
12	76.5	6.5	497	1	US-08-075-193-4	Sequence 4, Appli
13	76	6.5	497	2	US-08-564-050A-4	Sequence 4, Appli
14	76	6.5	497	5	PCT-US24-06698-4	Sequence 4, Appli
15	76	6.4	588	4	US-09-501-777-2	Sequence 2, Appli
16	75.5	6.4	1398	1	US-08-750-532-9	Sequence 9, Appli
17	75.5	6.4	1398	3	US-08-750-818B-8	Sequence 8, Appli
18	75.5	6.4	1398	4	US-09-445-472-6	Sequence 6, Appli
19	75	6.3	289	4	US-09-134-001C-1583	Sequence 458, Appli
20	74	6.2	339	4	US-09-189-847-350	Sequence 350, Appli
21	74	6.2	554	4	US-09-489-777-352	Sequence 352, Appli
22	74	6.2	884	4	US-09-741-150-4	Sequence 4, Appli
23	74	6.2	2474	4	US-08-265-987C-3	Sequence 3, Appli
24	74	6.2	2474	4	US-08-105-790B-4	Sequence 4, Appli
25	73.5	6.2	403	4	US-09-312-685-4	Sequence 685, Appli
26	73.5	6.2	523	2	US-08-173-553A-3	Sequence 3, Appli
27	73.5	6.2	869	1	US-08-188-582-32	Sequence 32, Appli

### ALIGNMENTS

RESULT 1									
US-08-978-174-1		Sequence 1, Application US/08978174							
		Patent No. 6030809							
		GENERAL INFORMATION:							
		APPLICANT: Shah, Purvi							
		Hillman, Jennifer L.							
		APPLICANT: Lal, Preeti							
		APPLICANT: Corley, Neil C.							
		TITLE OF INVENTION: NEW GLUTATHIONE-S-TRANSFERASE							
		NUMBER OF SEQUENCES: 3							
		CORRESPONDENCE ADDRESS:							
		ADDRESSEE: Incyte Pharmaceuticals, Inc.							
		STREET: 3174 Porter Drive							
		CITY: Palo Alto							
		STATE: CA							
		COUNTRY: USA							
		ZIP: 94304							
		COMPUTER READABLE FORM:							
		SOFTWARE: FASTERO for Windows Version 2.0							
		CURRENT APPLICATION DATA:							
		APPLICATION NUMBER: US/08/978.174							
		FILING DATE: Herewith							
		CLASSIFICATION:							
		PRIOR APPLICATION DATA:							
		APPLICATION NUMBER:							
		FILING DATE:							
		ATTORNEY/AGENT INFORMATION:							
		NAME: Billings, Lucy J.							
		REGISTRATION NUMBER: 36,749							
		REFERENCE/DOCKET NUMBER: PF-0430 US							
		TELECOMMUNICATION INFORMATION:							
		TELEPHONE: 650-855-0555							
		TELEFAX: 650-845-4166							
		TELEX:							
		INFORMATION FOR SEQ ID NO: 1:							
		SEQUENCE CHARACTERISTICS:							
		LENGTH: 226 amino acids							
		TYPE: amino acid							
		STRANDEDNESS: single							
		TOPOLOGY: linear							
		IMMEDIATE SOURCE:							
		LIBRARY: BLADT04							
		CLONE: 1554593							
		US-08-978-174-1							
		Query Match							
		100.0%; Score 1185; DB 3; Length 226;							

Best Local Similarity 100.0%; Matches 226; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGPLPRTVLFYDVLSPYSWLGFEILCRYQNIWNINLQLRPLSLTIDMGNSKPKGLLP 60  
 1 MGPLPRTVLFYDVLSPYSWLGFEILCRYQNIWNINLQLRPLSLTIDMGNSKPKGLLP 60  
 1 MGPLPRTVLFYDVLSPYSWLGFEILCRYQNIWNINLQLRPLSLTIDMGNSKPKGLLP 60  
 Db 61 RKGLYMANDLKLRRHHLQIPIHFKDPLSYMLKGSLSAMRFLTAVNLHPEMLKASRE 120  
 Db 61 HKGQYTLKEIPPLQKFQVPMSPVKPFGERVKGTVNAMRFLTAVNLHPEMLKVSRE 120  
 Qy 61 RKGLYMANDLKLRRHHLQIPIHFKDPLSYMLKGSLSAMRFLTAVNLHPEMLKASRE 120  
 Db 61 RKGLYMANDLKLRRHHLQIPIHFKDPLSYMLKGSLSAMRFLTAVNLHPEMLKASRE 120  
 Qy 121 LMWRVWSRNEDITEPOSILAAEKAGMSAEAQAGLLEKIAKPKVNLKETEACRYGA 180  
 Db 121 LMWRVWSRNEDITEPOSILAAEKAGMSAEAQAGLLEKIAKPKVNLKETEACRYGA 180  
 Qy 121 LMWRVWSRNEDITEPOSILAAEKAGMSAEAQAGLLEKIAKPKVNLKETEACRYGA 180  
 Db 121 LMWRVWSRNEDITEPOSILAAEKAGMSAEAQAGLLEKIAKPKVNLKETEACRYGA 180  
 Qy 181 FGGLPITVHVDGOTHMLFGSDRMELLAHLLGKRMGP1PPAVNRL 226  
 Db 181 FGGLPITVHVDGOTHMLFGSDRMELLAHLLGKRMGP1PPAVNRL 226  
 Db 181 FGGLPITVHVDGOTHMLFGSDRMELLAHLLGKRMGP1PPAVNRL 226

RESULT 3  
 US-09-252-991A-17282  
 ; Sequence 17282, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; FILE REFERENCE: 107196-136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIORITY NUMBER: US 60/074,788  
 ; PRIORITY FILING DATE: 1998-02-18  
 ; PRIORITY APPLICATION NUMBER: US 60/094,190  
 ; PRIORITY FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 17282  
 ; LENGTH: 203  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-17282  
 ; Query Match 16.5%; Score 196; DB 4; Length 203;  
 ; Best Local Similarity 26.1%; Pred. No. 4.6e-14;  
 ; Matches 55; Conservative 40; Mismatches 94; Indels 22; Gaps 5;  
 Qy 4 LPRTVLFYDVLSPYSWLGFEILCRYQNIWNINLQLRPLSLTIDMGNSKPKGLPRKG 63  
 Db 9 MSKQISFFDPSPTYLAWTQLPRAAHHGASIAARPMLLGGVFKATGNHSPIEPAKG 68  
 Qy 64 LYMANDLKLRRHHLQIPI---HFPKDFLSYMLKGSLSAMRFLTAVNLHPEMLKASR 119  
 Db 69 RYTLHDILARYRGVPLAFNPAFPINTLTM---RGAQSYLGG----EGRPYLK 117  
 Qy 120 ELMWRVWSRNEDITEPOSILAAEKAGMSAEAQAGLLEKIAKPKVNLKETEACRYG 179  
 Db 118 AVFEALWVQONLKGPKVVAQYLAEGFDPDE---PLRLVCDQEVCCEGLKATTEAVRGG 174  
 Qy 180 AFGLPITVHVDGOTHMLFGSDRMELLAHL 210  
 Db 175 VFGAPSFFV---GDLQLFQGDRDFFVAEAL 201

RESULT 4  
 US-09-252-991A-24671  
 ; Sequence 24671, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; FILE REFERENCE: 107196-136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIORITY NUMBER: US 60/074,788  
 ; PRIORITY APPLICATION NUMBER: US 60/094,190  
 ; PRIORITY FILING DATE: 1998-02-18

Query Match 73.8%; Score 874; DB 3; Length 226;  
 Best Local Similarity 69.5%; Pred. No. 1.e-90;  
 Matches 157; Conservative 38; Mismatches 31; Indels 0; Gaps 0;

US-08-978-174-3  
 Sequence 3, Application US/08978174  
 ; Patent No. 6030809  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Shah, Purvi L.  
 ; APPLICANT: Hillman, Jennifer L.  
 ; APPLICANT: Lal, Freeti  
 ; APPLICANT: Corley, Neil C.  
 ; TITLE OF INVENTION: NEW GLUTATHIONE-S-TRANSFERASE  
 ; NUMBER OF SEQUENCES: 3  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 ; STREET: 3174 Porter Drive  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94304  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FABSEQ FOR WINDOWS Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/978,174  
 ; FILING DATE: Herewitch  
 ; CLASSIFICATION:  
 ; APPLICATION NUMBER:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Billings, Lucy J.  
 ; REGISTRATION NUMBER: 36,749  
 ; REFERENCE/DOCKET NUMBER: PP-0430 US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 650-955-0555  
 ; TELEX:  
 ; INFORMATION FOR SEQ ID NO: 3:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 226 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; IMMEDIATE SOURCE:  
 ; LIBRARY: GenBank  
 ; CLONE: ?

PRIOR APPLICATION NUMBER: US 60/094,190  
 PRIOR FILING DATE: 1998-07-27  
 SEQ ID NO: 24671  
 LENGTH: 1150  
 TYPE: PRT  
 ORGANISM: *Pseudomonas aeruginosa*  
 us-09-252-991A-24671

Query Match Score 77; DB 4; Length 1150;  
 Best Local Similarity 7.3%; Pred. No. 1.3; Gaps 11;  
 Matches 46; Conservative 27; Mismatches 59; Indels 42; Gaps 11;  
 Qy 84 PRDPLSYMLKEGSLSAARFLKASREIWMRWSRNE-----DITEPQSI 138  
 Db 581 PEDWLC-----DGTTGTYDMQVSIQQLDPRGERPLRILWQRVSGRPEAFLDEVYQARQL 635  
 Qy 139 LAAEKAGMIAEAOQGLEKIAATPKVKNQOLKEETAAACRYGAGF-----PI--TVAHVDG 192  
 ·Db 636 VILAGSLAGDLENLAQGLL-RVARADLAS--RDITLGITRALFOLLARPVVRYAGACG 692  
 Qy 193 QT-----HMLFGSDRMELLAHLIGEKWNG-----PIPPAVNARL 226  
 Db 693 RSYDQREVRYAAEARELDDBADR-AVLDHL--ERNTGQPLRELPGPLRLL 743

## RESULT 5

US-08-855-714-3  
 Sequence 3, Application US/08855714  
 Patent No. 5933075

GENERAL INFORMATION:  
 APPLICANT: Young, Huo-Shu H.  
 ADDRESS SEE: Warren, Richard L.  
 TITLE OF INVENTION: MUTANTS OF BRUCELLA MELITENSIS  
 NUMBER OF SEQUENCES: 3  
 CORRESPONDENCE ADDRESS:  
 STREET: HQ USAMRDC, Dept. of Army, Fort Detrick  
 CITY: Frederick  
 STATE: MD  
 COUNTRY: US  
 ZIP: 21702-5012

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/855,714  
 FILING DATE: 2000-08-08

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/334,129  
 FILING DATE: 04-NOV-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Hendricks, Genna  
 REGISTRATION NUMBER: 32,535  
 REFERENCE/DOCKET NUMBER: 08/143,692

TELECOMMUNICATION INFORMATION:  
 TELEFAX: (301) 619-2065  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 339 amino acids

TYPE: amino acid  
 STRANDEDNESS: both  
 TOPOLOGY: unknown  
 MOLECULE TYPE:  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ORGANISM: BRUCELLA MELITENSIS

US-08-855-714-3

Query Match Score 6.8%; DB 2; Length 339;  
 Best Local Similarity 21.7%; Pred. No. 1.1; Gaps 14;  
 Matches 65; Conservative 25; Mismatches 96; Indels 113; Gaps 14;  
 Qy 3 PLPRTVETFYDVL-----PYSMLGFELCRYQNIWNINILQLRPSLITGIMKDSGNKPPGIL 59  
 Db 47 PLPTSPMLKNCQSAAPTSWLRRLFCPRPHWK-----SLRATSQKSSSTRAALK 99

Query Match Score 60; DB 4; Length 110;  
 Best Local Similarity 21.7%; Pred. No. 1.1; Gaps 14;  
 Matches 65; Conservative 25; Mismatches 96; Indels 113; Gaps 14;  
 Qy 60 PRK-GLYMANDIKLRLHQLQIHPKPDFLSMULEKSSL-----SAMRFLTAVNLEH 110  
 Db 100 PREGGSNTRKSSPSPRSALGRAWH-----PQDRRLGXYDGRGCVRLASLDETOQACNAFAAIN KA 157  
 Qy 111 PENE-----KASRERLWRVWSRNEDITEPQSI-----AAEAKAG-----146  
 Db 158 PALEGFTYFEEFEEF-----SVIARDRSGNVAIFDLAENVHDGILATST 202  
 Qy 147 -----MSAEORQGLEKIA-----TPKVNQLKETTE-----173  
 Db 203 VPAATISQTAEARTAAEKLHLADYYVVGVLGEEFFLKDGTLLANEFAPRVNS-GHWE 261  
 Qy 174 AACRYGAF-----GLPI-----TVAHYDQGQTEMFLRGSD-----RMELLAHLIGEK 213  
 Db 262 AACATISQEQTIRAVAGIPLGNTDRLSDCVMENLIGDDIEKVDIEKVPAILCEKNAVHLHYGCK 320

## RESULT 6

US-09-252-991A-16824  
 Sequence 16824, Application US/09252991A  
 Patent No. 6551795  
 GENERAL INFORMATION:  
 APPLICANT: Marc J. Rubenfield et al.  
 TITLE OF INVENTION: NUCLEAR ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
 FILE REFERENCE: 107196-136  
 CURRENT APPLICATION NUMBER: US/09/252,991A  
 CURRENT FILING DATE: 1999-02-18  
 PRIORITY APPLICATION NUMBER: US 60/074,788  
 PRIORITY FILING DATE: 1998-02-18  
 PRIORITY APPLICATION NUMBER: US 60/094,190  
 NUMBER OF SEQ ID NOS: 33142  
 SEQ ID NO 16824  
 LENGTH: 353  
 TYPE: PRT  
 ORGANISM: *Pseudomonas aeruginosa*

Query Match Score 6.6%; DB 4; Length 353;  
 Best Local Similarity 26.1%; Pred. No. 2; Gaps 15;  
 Matches 62; Conservative 26; Mismatches 79; Indels 71; Gaps 15;  
 Qy 33 WNNINLQRLRPSLITGIMKDSGNK-----PCCILPKGLYMA-----NDLKLRLHQLQIPI 81  
 Db 134 WTPALLVRKDKSPIRSLAELKGKRVAAATKGTDPLFLRLHSVGLDDNLDLRTV-HLQHPD 191  
 Qy 82 HFPKDFPLSVMLEKGSLSAMRFPTAVNLEHPEM-----LEKASRELWNR-----VNSRNE 130  
 Db 192 G-----RVALEKQGDWAGI-----DPMMAASLEQASRLBLLYRNLFNSYGVNLVRE 239  
 Qy 131 DTE--PQ--SILAEEKA-----GMSAEQAGLLEKIAATP--KVKNQLKETTEAACRY 178  
 Db 240 DPAERHQLIROYLAEQARHWWIGSHPDEAQLLAEAGIPLLEVARLQLSRTD-----293  
 Qy 179 GAFGLPI-----TVAHYDQGQTEMFL-----GSDRMELLAHLIGEK-----MGPPIPA 221  
 Db 294 --FSQPLPGAEQVAALKAAPPLADRLVRSVVDYQKVDDELIAPPWAEEVIGGVPLA 349

RESULT 7  
 US-09-198-452A-432  
 Sequence 432, Application US/09198452A  
 Patent No. 6559294

GENERAL INFORMATION:  
 APPLICANT: Griffais, R.  
 TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection  
 TITLE OF INVENTION: and treatment of infection  
 FILE REFERENCE: 9710-003-999  
 CURRENT APPLICATION NUMBER: US/09/198,452A  
 CURRENT FILING DATE: 1998-11-24  
 NUMBER OF SEQ ID NOs: 6849  
 SEQ ID NO 432  
 LENGTH: 659  
 TYPE: PRT  
 ORGANISM: Chlamydia pneumoniae  
 FEATURE:  
 NAME/REF: SITE  
 LOCATION: 1..659  
 OTHER INFORMATION: Xaa=unknown or other

US-09-198-452A-432

Query Match 6.5%; Score 77; DB 4; Length 659;  
 Best Local Similarity 21.3%; Pred. No. 7.8; Indels 58; Gaps 8;  
 Matches 52; Conservative 36; Mismatches 98; Indels 58; Gaps 8;

Query 9 ELYFDVLS- PYSWIGFELLCYQNI-----WNINLQLRPSLITGI 47  
 Db 371 ERFYEVINHPDLHSQKEREIEFLGLSNITIPENVSFGYQEDKHILRNLSFTLHKGEALGI 430

Query 48 MKDSGNKPP --GLLPKPGLIVNANDLKLRLHQLIPIHPKDFLSPMLEKGSILSAMRFLT 104  
 Db 431 VGPITGSKTTLVKKLPR--LIEVSKQKILSLSPITEY-----NRHII 475

Query 105 AVNLREHP-----EMLEXASRELWMRVWSRNEDEDITEPQSIILAAEAKAGMSA 149  
 Db 476 ACVLQNPLFLDVTWNNLITGKDMEEAVLALKRAYADBTLKLPGKVIVSLBESGNKL 535

Query 150 EQAQGLIEKATPKVKNQ---LKEETEAACRYGAFLGLPPTVAVHDGQTHMLFGSDRMEL 205  
 Db 536 SGQQQRLAIAARALLKNAASILDEATSALDAISENYKNTIGELRKQCTQIIAHKLIT 595

Query 206 LAHL 209  
 Db 596 LEHV 599

RESULT 8  
 US-09-066-075-2  
 Sequence 2, Application US/09066075  
 Patent No. 5925749  
 GENERAL INFORMATION:  
 APPLICANT: Mathur, E., et al.  
 TITLE OF INVENTION: Carboxymethyl Cellulase from Thermotoga Maritima  
 NUMBER OF SEQUENCES: 4  
 US-09-066-075-2  
 Sequence 2, Application US/09066075  
 Patent No. 5925749  
 GENERAL INFORMATION:  
 APPLICANT: Mathur, E., et al.  
 TITLE OF INVENTION: Carboxymethyl Cellulase from Thermotoga Maritima  
 NUMBER OF SEQUENCES: 4  
 ADDRESSSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
 ADDRESSSEE: CECCHI, STEWART & OLSTEIN  
 STREET: 6 BECKER FARM ROAD  
 CITY: ROSELAND  
 STATE: NEW JERSEY  
 COUNTRY: USA  
 ZIP: 07068  
 COMPUTER READABLE FORM:  
 MEDIUM: 3.5 INCH DISKETTE  
 COMPUTER: IBM PS/2  
 OPERATING SYSTEM: MS-DOS  
 SOFTWARE: WORD PERFECT 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/518,615A  
 FILING DATE: August 23, 1995  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US/09/066,075  
 FILING DATE:  
 CLASSIFICATION:  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US/08/518,615  
 FILING DATE: August 23, 1995  
 ATTORNEY/AGENT INFORMATION:

GENERAL INFORMATION:  
 NAME: FERRARO, GREGORY D.  
 REGISTRATION NUMBER: 36,134  
 REFERENCE/DOCKET NUMBER: 331400-20  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 201-994-1700  
 TELEFAX: 201-994-1744  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 317 AMINO ACIDS  
 TYPE: AMINO ACID  
 STRANDEDNESS:  
 TOPOLOGY: LINEAR  
 MOLECULE TYPE: PROTEIN  
 US-09-066-075-2

Query Match 6.5%; Score 76.5; DB 2; Length 317;  
 Best Local Similarity 21.1%; Pred. No. 2.9;  
 Matches 43; Conservative 22; Mismatches 50; Indels 89; Gaps 10;

Query 76 HLQIPPH-----FP-----KDFLSYMLKGSLSAMRFLTAVNLEHPEMLK 116  
 Db 49 HVRIPRWSHTAYAAPPYKIMDRPFKKRVDENGALKRG-----LAVAINTHYYELNN 102

Query 117 ASRE-----LMMRWSRNED-----ITEPQS-----  
 Db 103 DPEEERKERFLAKWKOIADRYKDYPTPLFFRILNEPHGNLTPEKVNBLLEBALVKRISDK 162

Query 138 ---IIAAAKAGMSAQAGLLEKATPKVQNLQETTEAACRYGAGFLGIPITVAHVDGQ 193  
 Db 163 KHTTITGTAWGGLSA-----LEKLSVPRKWS-----KNSIVTIHYNPFFEF----- 203

Query 194 THMLPGSDRMELLAHLGEKWMGP 217  
 Db 204 THQ--GAEWTEGSEKMLGRKGSP 225

RESULT 9  
 US-09-518-615A-2  
 Sequence 2, Application US/08518615A  
 Patent No. 5962258  
 GENERAL INFORMATION:  
 APPLICANT: Mathur, E., et al.  
 TITLE OF INVENTION: Carboxymethyl Cellulase from Thermotoga Maritima  
 NUMBER OF SEQUENCES: 4  
 CORRESPONDENCE ADDRESS:  
 ZIP: 07068  
 COMPUTER READABLE FORM:  
 MEDIUM: 3.5 INCH DISKETTE  
 COMPUTER: IBM PS/2  
 OPERATING SYSTEM: MS-DOS  
 SOFTWARE: WORD PERFECT 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/518,615A  
 FILING DATE: August 23, 1995  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US/09/066,075  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: FERRARO, GREGORY D.  
 REGISTRATION NUMBER: 36,134  
 REFERENCE/DOCKET NUMBER: 331400-20  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 201-994-1700  
 TELEFAX: 201-994-1744  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:

Query Match 6.5%; Score 76.5%; DB 3; Length 317;  
 Best Local Similarity 21.1%; Pred. No. 2.9;  
 Matches 41; Conservative 22; Mismatches 50; Indels 89; Gaps 10;

Strandedness: ; Topology: Linear; Molecule Type: Protein

US-08-518-655A-2

Query Match 6.5%; Score 76.5%; DB 2; Length 317;  
 Best Local Similarity 21.1%; Pred. No. 2.9;  
 Matches 43; Conservative 22; Mismatches 50; Indels 89; Gaps 10;

Strandedness: ; Topology: Linear; Molecule Type: Protein

Qy 76 HLQIPIH-----FP-----KDFLSVMLKGSLSAMRFVLTAVNLEHPMLK 116  
 Db 49 HVRIPRWSVTHAYAPPYKIMDRFFKRVDEVINGALKRG-----LAVAINIHHYELMN 102

Qy 117 ASRE-----LWRVWSRNED-----ITPQS-----  
 Db 103 DPEEEHKERFLALWQIADRYKDYPETLFFETLNEPHGNLTPEKWNILLEBALVKVRSIDK 162

Qy 118 HLOQIPIH-----FP-----KDFLSVMLKGSLSAMRFVLTAVNLEHPMLK 116  
 Db 49 HVRIPRWSVTHAYAPPYKIMDRFFKRVDEVINGALKRG-----LAVAINIHHYELMN 102

Qy 119 ASRE-----LWRVWSRNED-----ITPQS-----  
 Db 103 DPEEEHKERFLALWQIADRYKDYPETLFFETLNEPHGNLTPEKWNILLEBALVKVRSIDK 162

Qy 138 ----ILAAEAKAGMSAQAGLIEKIAKPVKVNLQKETTEAACRYGAFGLPITVAVHVDQ 193  
 Db 163 KHTIIIGTAEWGGISA-----LEKLSVKE-----KNSIVTIIHYNPFEF----- 203

Qy 194 THMLFGSDRMELLALHLLGKRGKGP 217  
 Db 204 THQ--GAEWEGSEKWLGRKGSP 225

RESULT 10  
 US-08-551-889-2  
 Sequence 2, Application US/08951889  
 Patent No. 6008032  
 General Information:  
 Applicant: Mathur, E., et al.  
 Title of Invention: Carboxymethyl Cellulase from Thermotoga Maritima  
 Number of Sequences: 4  
 Correspondence Address:  
 Address: CARELLA, BYRNE, BAIN, GILFILLAN,  
 Street: 6 BECKER FARM ROAD  
 City: ROSELAND  
 State: NEW JERSEY  
 Country: USA  
 Zip: 07068  
 Computer Readable Form:  
 Medium Type: 3.5 INCH DISKETTE  
 Computer: IBM PS/2  
 Operating System: MS-DOS  
 Software: WORD PERFECT 5.1  
 Current Application Data:  
 Application Number: US/08/951,889  
 Filing Date:  
 Classification: 435  
 Prior Application Data:  
 Application Number: 08/518,615  
 Filing Date: August 23, 1995  
 Attorney/Agent Information:  
 Name: FERRARO, GREGORY D.  
 Registration Number: 36,134  
 Reference Docket Number: 331400-20  
 Telecommunication Information:  
 Telephone: 201-994-1700  
 Telefax: 201-994-1744  
 Information for Seq ID No: 2:  
 Sequence Characteristics:  
 Length: 317 AMINO ACIDS  
 Type: AMINO ACID

Strandedness: ; Topology: Linear; Molecule Type: Protein

US-08-951-889-2

Query Match 6.5%; Score 76.5%; DB 3; Length 317;  
 Best Local Similarity 21.1%; Pred. No. 2.9;  
 Matches 43; Conservative 22; Mismatches 50; Indels 89; Gaps 10;

Strandedness: ; Topology: Linear; Molecule Type: Protein

Qy 76 HLQIPIH-----FP-----KDFLSVMLKGSLSAMRFVLTAVNLEHPMLK 116  
 Db 49 HVRIPRWSVTHAYAPPYKIMDRFFKRVDEVINGALKRG-----LAVAINIHHYELMN 102

Qy 117 ASRE-----LWRVWSRNED-----ITPQS-----  
 Db 103 DPEEEHKERFLALWQIADRYKDYPETLFFETLNEPHGNLTPEKWNILLEBALVKVRSIDK 162

Qy 138 ----ILAAEAKAGMSAQAGLIEKIAKPVKVNLQKETTEAACRYGAFGLPITVAVHVDQ 193  
 Db 163 KHTIIIGTAEWGGISA-----LEKLSVKE-----KNSIVTIIHYNPFEF----- 203

Qy 194 THMLFGSDRMELLALHLLGKRGKGP 217  
 Db 204 THQ--GAEWEGSEKWLGRKGSP 225

RESULT 11  
 US-09-472-857-2  
 Sequence 2, Application US/09472857  
 Patent No. 6245547  
 General Information:  
 Applicant: Mathur, E., et al.  
 Title of Invention: Carboxymethyl Cellulase from Thermotoga Maritima  
 Number of Sequences: 4  
 Correspondence Address:  
 Address: CARELLA, BYRNE, BAIN, GILFILLAN,  
 Street: 6 BECKER FARM ROAD  
 City: ROSELAND  
 State: NEW JERSEY  
 Country: USA  
 Zip: 07068  
 Computer Readable Form:  
 Medium Type: 3.5 INCH DISKETTE  
 Computer: IBM PS/2  
 Operating System: MS-DOS  
 Software: WORD PERFECT 5.1  
 Current Application Data:  
 Application Number: US/09/472,857  
 Filing Date:  
 Classification:  
 Prior Application Data:  
 Application Number: 08/951,889  
 Filing Date:  
 Application Number: 08/518,615  
 Filing Date: August 23, 1995  
 Attorney/Agent Information:  
 Name: FERRARO, GREGORY D.  
 Registration Number: 36,134  
 Reference Docket Number: 331400-20  
 Telecommunication Information:  
 Telephone: 201-994-1700  
 Telefax: 201-994-1744  
 Information for Seq ID No: 2:  
 Sequence Characteristics:  
 Length: 317 AMINO ACIDS  
 Type: AMINO ACID

Strandedness: ; Topology: Linear; Molecule Type: Protein

US-09-472-857-2



STREET: 201 NORTH FIGUEROA STREET  
 CITY: LOS ANGELES  
 STATE: CALIFORNIA  
 COUNTRY: USA  
 ZIP: 90012  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOSS-DOSS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US94/06698  
 FILING DATE: FILED HEREWITH  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: BERLINER, ROBERT  
 REGISTRATION NUMBER: 20,121  
 REFERENCE/DOCKET NUMBER: 5555-224-C1  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 213-977-1001  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 497 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 PCT-US94-06698-4

Query Match 6.5%; Score 76.5; DB 5; Length 497;  
 Best Local Similarity 25.4%; Pred. No. 5.8;  
 Matches 44; Conservative 29; Mismatches 69; Indels 31; Gaps 9;

Qy 14 VLSPYWSLGFPEILCRYONTWNINOLRSPPLITGMDSNKPPGELLPRKG-LYANDILK 72  
 Db 195 LLTPEHLLALICORTDTKAAL-----GVLRQSRVKTWLVGRGQLQVAFTIKE 246

Qy 73 LRHHHLQI----PIHFPKDPI-----SYMLERKGSSLSAMRFLTAVNLHPEMLEKASREL 121  
 Db 247 LREMLQPLGARPLDVFQGLQDKIKEYPRPRKLTEILLRAT-----EKGPAEAOQLS 304

Qy 122 WMRVWSRNEDEITEPOSILAAAEEKAGMSAEAOQGLIEKATPKVKNOLKETTEA 174  
 Db 305 ASRAGWL-RFERSPQVLPSPD----GRRAAGV-RLAVTRLEG-VDRA TRA 348

RESULT 15

US-09-601-777-2  
 Sequence 2, Application US/09601777  
 Patent No. 6461848  
 GENERAL INFORMATION:  
 APPLICANT: Nakajima, Motowo  
 APPLICANT: Funakubo, Minako  
 TITLE OF INVENTION: Human heparanase polypeptide and cDNA  
 FILE REFERENCE: 30384A  
 CURRENT FILING DATE: 2000-08-07  
 NUMBER OF SEQ ID NOS: 2  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 2  
 LENGTH: 588  
 TYPE: PRF  
 ORGANISM: Human  
 US-09-601-777-2

Query Match 6.4%; Score 76; DB 4; Length 588;  
 Best Local Similarity 19.4%; Pred. No. 8.5;  
 Matches 36; Conservative 27; Mismatches 71; Indels 52; Gaps 6;

Qy 14 VLSPYWSLGFPEILCRYONTWNINOL-----LRSLITGIMKOSGNKCPG 57  
 Db 24 ISAPPKW-----WVVISRGEQPGEPKMLRSKPPLMLLGPGLPSFG 72